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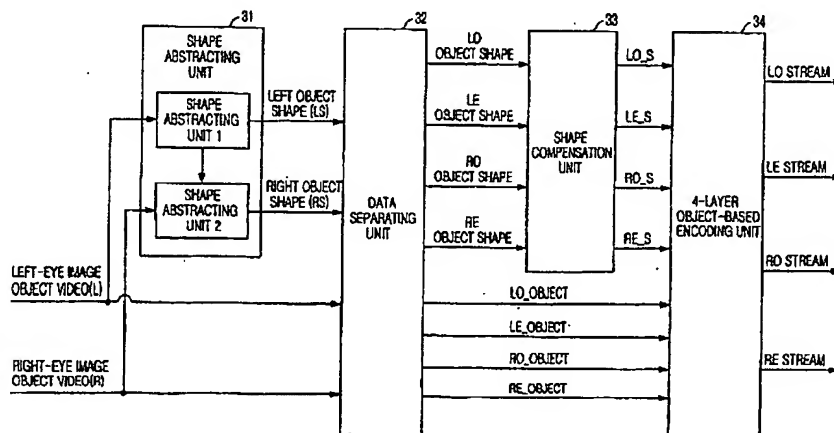
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(54) Title: **MULTI-DISPLAY SUPPORTING MULTI-VIEW VIDEO OBJECT-BASED ENCODING APPARATUS AND METHOD, AND OBJECT-BASED TRANSMISSION/RECEPTION SYSTEM AND METHOD USING THE SAME**



(57) Abstract: Provided are a multi-display supporting multi-view video object-based encoding apparatus and method, and an object-based transmission/reception system and method using the encoding apparatus and method. The encoding apparatus includes: a shape abstracting means for receiving right/left-eye image object video and abstracting right/left object image, respectively, to abstract the shape information of a multi-view video; a data separating means for receiving the right/left-eye image object video, and the right/left shape information, and separating them into odd field objects and even field objects to transmit only the essential bit streams for a user display mode; a shape compensation means for compensating for the distortion of the shape information separated into odd and even fields; and an object-based encoding means for receiving the object-based information from the shape compensation means and the object-based information from the data separating means, forming four layers, and performing motion and disparity estimation to encode object-based data that are separated into odd and even lines.